

CAS

RN Search

3.22.06

=&gt; s 13676-91-0/rn and 151285-25-5/rn

69 13676-91-0  
 0 13676-91-0D  
 69 13676-91-0/RN  
 (13676-91-0 (NOTL) 13676-91-0D )  
 6 151285-25-5  
 0 151285-25-5D  
 6 151285-25-5/RN  
 (151285-25-5 (NOTL) 151285-25-5D )  
 L7 3 13676-91-0/RN AND 151285-25-5/RN

=&gt; d all 1-3

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:58290 CAPLUS  
 DN 142:136459  
 ED Entered STN: 21 Jan 2005  
 TI Blue disperse dye mixtures with high degree of light fastness  
 IN Hihara, Toshio; Seto, Wataru; Fujisaki, Koichi; Hosoda, Daisuke; Inoue, Hiroshi  
 PA Dystar Textilfarben GmbH & Co. Deutschland KG, Germany  
 SO PCT Int. Appl., 34 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C09B067-22  
 CC 40-6 (Textiles and Fibers)  
 Section cross-reference(s): 41  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005005552	A1	20050120	WO 2004-EP7021	20040629
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2005023254	A2	20050127	JP 2003-192345	20030704
CA 2531178	AA	20050120	CA 2004-2531178	20040629
PRAI JP 2003-192345	A	20030704		
WO 2004-EP7021	W	20040629		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2005005552	ICM	C09B067-22
	IPCI	C09B0067-22 [ICM,7]
	IPCR	C09B0001-00 [I,C]; C09B0001-503 [I,A]; C09B0001-514 [I,A]; C09B0001-58 [I,A]; C09B0005-00 [I,C]; C09B0005-24 [I,A]; C09B0029-00 [I,C]; C09B0029-36 [I,A]; C09B0029-42 [I,A]; C09B0057-00 [I,C]; C09B0057-06 [I,A]; C09B0067-00 [I,C]; C09B0067-22 [I,A]; D06P0003-34 [I,C]; D06P0003-54 [I,A]; D06P0003-82 [I,C]; D06P0003-87 [I,A]
JP 2005023254	IPCI	C09B0067-22 [ICM,7]; C09B0001-503 [ICS,7]; C09B0001-514 [ICS,7]; C09B0001-58 [ICS,7]; C09B0005-24 [ICS,7]; C09B0029-36 [ICS,7]; C09B0029-42 [ICS,7]; C09B0057-06 [ICS,7]; D06P0003-54 [ICS,7]; D06P0003-87 [ICS,7]
	FTERM	4H056/AA01; 4H056/AB03; 4H056/AB05; 4H056/AC01;

4H056/AC02; 4H056/AD09B; 4H056/AD13C; 4H056/AD19B;  
4H056/AD23B; 4H056/AD24B; 4H056/AD28B; 4H057/AA01;  
4H057/AA02; 4H057/BA08; 4H057/DA01; 4H057/DA17;  
4H057/DA30

CA 2531178 IPCI C09B0067-22 [I,A]  
OS MARPAT 142:136459  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB A blue colored dye mixture which contains 10-60 wt% of a mixture of the two isomers of I (one of X1 and X2 = NO2 and the other represents OH), 10-60 wt% of a blue pigment II (R1 = -C3H6OCH3, -C3H6OC2H5 or -C3H6OC2H4OCH3), 10-30 wt% of the blue pigment III, and 0-20 wt% of a blue pigment IV (R2 = H or a C1-C2 alkyl group, and R3 = H, a C1-C2 alkyl group or a C1-C2 alkoxy C1-C2 alkyl group). A method of dyeing polyester-based fibers and dyed polyester-based fiber materials are also claimed. Thus, a polyester-based fiber cloth for car seat was submerged in a dyeing bath containing 4-anilino-5-nitro-1,8-dihydroxyanthraquinone 40, CN 4-anilino-8-nitro-1,5-dihydroxyanthraquinone 5, 1,4-diamino-9,10-dihydro-N-(3-methoxypropyl)-9,10-dioxo-2,3-anthracenedicarboximide 40, and III 15% at 135° for 30 min and subjected to reduction washing, water washing, and drying to give a blue textile showing superior high lightfastness.

ST blue disperse dye light fastness polyester fiber cloth anthraquinone

IT Dyeing  
(anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT Disperse dyes  
(anthraquinone; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT Anthraquinone dyes  
(disperse; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT Textiles  
(dyed; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT Polyester fibers, processes  
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)  
(fabrics; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT Upholstery  
(seats, automotive; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT 1594-08-7 3065-87-0 12217-80-0 13698-89-0 13716-91-1 20241-76-3  
65059-45-2 72906-26-4 81419-36-5 824954-88-3  
RL: TEM (Technical or engineered material use); USES (Uses)  
(blue dye; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT 17418-58-5 34231-26-0 42987-34-8 59722-76-8 75601-56-8  
120412-83-1 824414-36-0D, hydroxyethoxyethyl, hydroxybutoxypropyl, acetoxymethoxyethyl or acetoxymethoxypropyl derivs.  
RL: TEM (Technical or engineered material use); USES (Uses)  
(red dye; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT 13676-91-0 151285-25-5 156309-10-3  
RL: TEM (Technical or engineered material use); USES (Uses)  
(yellow dye; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

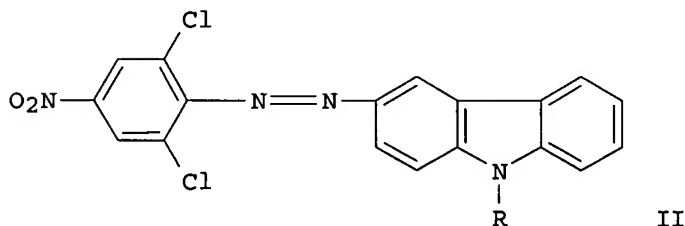
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE

T Patent  
 LA Japanese  
 IC ICM C09B067-22  
 ICS D06P001-16; D06P003-54  
 CC 40-6 (Textiles and Fibers)  
 Section cross-reference(s): 41  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004067933	A2	20040304	JP 2002-231524	20020808
	WO 2004018567	A1	20040304	WO 2003-EP8582	20030802
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003253376	A1	20040311	AU 2003-253376	20030802
	CN 1675316	A	20050928	CN 2003-819091	20030802
	US 2005272920	A1	20051208	US 2005-523656	20050315 <--
PRAI	JP 2002-231524	A	20020808		
	WO 2003-EP8582	W	20030802		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2004067933	ICM	C09B067-22
	ICS	D06P001-16; D06P003-54
	IPCI	C09B0067-22 [ICM,7]; D06P0001-16 [ICS,7]; D06P0003-54 [ICS,7]
	FTERM	4H057/BA08; 4H057/DA01; 4H057/DA17
WO 2004018567	IPCI	C09B0067-22 [ICM,7]; D06P0003-54 [ICS,7]
	IPCR	C09B0067-00 [I,C]; C09B0067-22 [I,A]
	ECLA	C09B067/00M5
AU 2003253376	IPCI	C09B0067-22 [ICM,7]; D06P0003-54 [ICS,7]
CN 1675316	IPCI	C09B0067-22 [ICM,7]
US 2005272920	IPCI	D06P0003-82 [ICM,7]
	NCL	534/653.000; 008/533.000
	ECLA	C09B067/00M5; D06P003/54
OS	MARPAT 140:219295	
GI		



AB The dye mixture, useful for automobile seats, comprises 25-80% 1,8-bis(phenylthio)anthraquinone (I) and 20-75% II (R = Cl-4-hydroxyalkyl). The mixture may further contain ≤15% methoxy-7H-benzimidazo[2,1-a]benz[de]isoquinolin-7-one. Thus, a polyester fabric was dyed with a dispersion containing I and II (R = C2H4OH) to show ratio of color d. for dyeing at 120° to that at 130° 80%.

ST yellow disperse dye phenylthioanthraquinone polyester fiber;

methoxybenzimidazobenzisoquinolinone chloronitrophenylazocarbazole dye  
mixt polyester fiber; automobile seat yellow dye light fastness

IT Polyester fibers, uses

RL: PEP (Physical, engineering or chemical process); PYP (Physical  
process); TEM (Technical or engineered material use); PROC (Process); USES  
(Uses)

(fabrics; yellow disperse dye mixts. with good light fastness and  
decreased temperature dependence of dyeing for polyester fibers)

IT Upholstery

(seats, automotive; yellow disperse dye mixts. with good light fastness  
and decreased temperature dependence of dyeing for polyester fibers)

IT Disperse dyes

(yellow disperse dye mixts. with good light fastness and decreased  
temperature dependence of dyeing for polyester fibers)

IT 13676-91-0, 1,8-Bis(phenylthio)anthraquinone 151285-25-5,  
9H-Carbazole-9-ethanol, 3-[(2,6-dichloro-4-nitrophenyl)azo]- 156309-10-3  
666173-97-3 666173-98-4

RL: TEM (Technical or engineered material use); USES (Uses)

(yellow disperse dye mixts. with good light fastness and decreased  
temperature dependence of dyeing for polyester fibers)

- (1) Basf Ag; DE 19848201 A 2000 CAPLUS
- (2) Dystar Japan Kk; JP 2004168950 A 2004 CAPLUS
- (3) Kasei, H; EP 0621320 A 1994 CAPLUS
- (4) Nippon Kayaku Kk; JP 04164969 A 1992 CAPLUS
- (5) Sumitomo Chem Co Ltd; JP 09176509 A 1997 CAPLUS
- (6) Sumitomo Chem Co Ltd; JP 10195328 A 1998 CAPLUS

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:492741 CAPLUS  
 DN 141:55716  
 ED Entered STN: 18 Jun 2004  
 TI Disperse blue dye mixtures showing high-level lightfastness and dyeing of fine-denier polyester fibers therewith  
 IN Fujisaki, Koichi; Hosoda, Daisuke; Inoue, Hiroshi; Hinohara, Toshio  
 PA Dystar Japan Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 18 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C09B067-22  
 ICS D06P001-16; D06P003-54  
 CC 40-6 (Textiles and Fibers)  
 Section cross-reference(s): 41

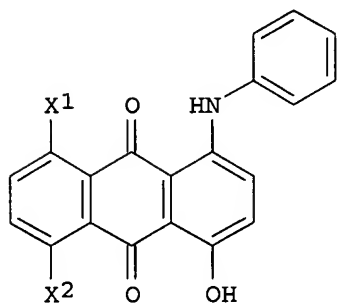
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004168950	A2	20040617	JP 2002-338636	20021121
PRAI	JP 2002-338636		20021121		

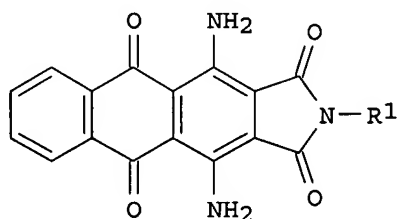
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2004168950	ICM	C09B067-22
	ICS	D06P001-16; D06P003-54
	IPCI	C09B0067-22 [ICM,7]; D06P0001-16 [ICS,7]; D06P0003-54 [ICS,7]
	FTERM	4H057/AA01; 4H057/AA02; 4H057/DA01; 4H057/DA17

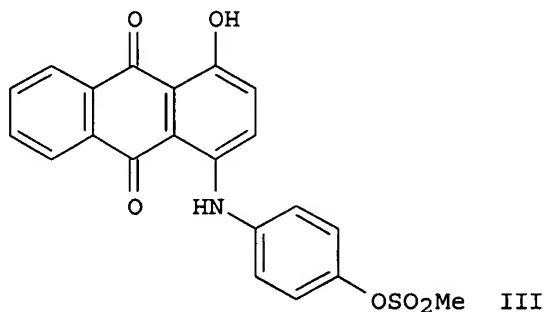
GI



I



II



III

AB The dye mixts., suited for dyeing of polyester fabric webs for automobile seats, comprise I (X1, X2 = NO2 and OH or vise-versa) 30-70, II (R1 = C3H6OMe, C3H6OEt, C3H6OC2H5OMe) 30-60, and III 0-10%. Thus, a polyester fiber fabric for car seat was submerged in a dyeing bath containing I-a 45, I-b 5, II-a 45, and III 5% at 135° for 30 min and subjected to reduction washing, water washing, and drying to give a blue textile showing superior high lightfastness.

ST polyester textile dyeing anthraquinone blue dye; disperse dye mixt lightfast dyeing polyester fiber

IT Dyeing  
(anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT Disperse dyes  
(blue; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT Textiles  
(dyed; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT Polyester fibers, uses  
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(fabrics; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT Upholstery  
(seats, automotive; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT 13676-91-0  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT 1594-08-7 17418-58-5 34231-26-0 137428-29-6 149988-44-3  
151285-25-5 156309-10-3  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(dyeing bath; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

IT 3065-87-0 12217-80-0 20241-76-3 65059-45-2 72906-26-4  
RL: TEM (Technical or engineered material use); USES (Uses)  
(dyeing bath; anthraquinone-type disperse blue dye mixts. dyeing fine polyester fibers with high-level lightfastness)

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:180116 CAPLUS

DN 140:219295

ED Entered STN: 05 Mar 2004

TI Yellow disperse dye mixtures with good light fastness and decreased temperature dependence of dyeing, and dyeing method for polyester fibers using them

IN Seto, Wataru; Inoue, Hiroshi; Hinohara, Toshio

PA Dyestar Japan K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09B067-22

ICS D06P001-16; D06P003-54

CC 40-6 (Textiles and Fibers)

Section cross-reference(s): 41

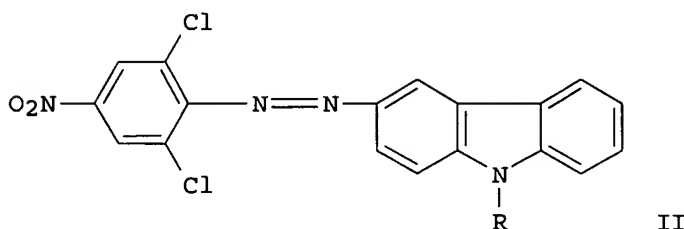
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2004067933	A2	20040304	JP 2002-231524	20020808
	WO 2004018567	A1	20040304	WO 2003-EP8582	20030802
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003253376	A1	20040311	AU 2003-253376	20030802
	CN 1675316	A	20050928	CN 2003-819091	20030802
	US 2005272920	A1	20051208	US 2005-523656	20050315
PRAI	JP 2002-231524	A	20020808		
	WO 2003-EP8582	W	20030802		

# CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2004067933	ICM	C09B067-22
	ICS	D06P001-16; D06P003-54
	IPCI	C09B0067-22 [ICM,7]; D06P0001-16 [ICS,7]; D06P0003-54 [ICS,7]
	FTERM	4H057/BA08; 4H057/DA01; 4H057/DA17
WO 2004018567	IPCI	C09B0067-22 [ICM,7]; D06P0003-54 [ICS,7]
	IPCR	C09B0067-00 [I,C]; C09B0067-22 [I,A]
	ECLA	C09B067/00M5
AU 2003253376	IPCI	C09B0067-22 [ICM,7]; D06P0003-54 [ICS,7]
CN 1675316	IPCI	C09B0067-22 [ICM,7]
US 2005272920	IPCI	D06P0003-82 [ICM,7]
	NCL	534/653.000; 008/533.000
	ECLA	C09B067/00M5; D06P003/54
OS	MARPAT 140:219295	
GI		



AB The dye mixture, useful for automobile seats, comprises 25-80% 1,8-bis(phenylthio)anthraquinone (I) and 20-75% II (R = Cl-4-hydroxyalkyl). The mixture may further contain ≤15% methoxy-7H-benzimidazo[2,1-a]benz[de]isoquinolin-7-one. Thus, a polyester fabric was dyed with a dispersion containing I and II (R = C2H4OH) to show ratio of color d. for dyeing at 120° to that at 130° 80%.

ST yellow disperse dye phenylthioanthraquinone polyester fiber; methoxybenzimidazobenzisoquinolinone chloronitrophenylazocarbazole dye mixt polyester fiber; automobile seat yellow dye light fastness

IT Polyester fibers, uses  
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (fabrics; yellow disperse dye mixts. with good light fastness and

decreased temperature dependence of dyeing for polyester fibers)

IT Upholstery  
(seats, automotive; yellow disperse dye mixts. with good light fastness  
and decreased temperature dependence of dyeing for polyester fibers)

IT Disperse dyes  
(yellow disperse dye mixts. with good light fastness and decreased  
temperature dependence of dyeing for polyester fibers)

IT 13676-91-0, 1,8-Bis(phenylthio)anthraquinone 151285-25-5  
, 9H-Carbazole-9-ethanol, 3-[(2,6-dichloro-4-nitrophenyl)azo]-  
156309-10-3 666173-97-3 666173-98-4  
RL: TEM (Technical or engineered material use); USES (Uses)  
(yellow disperse dye mixts. with good light fastness and decreased  
temperature dependence of dyeing for polyester fibers)

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